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Mr. GALE accordingly undertook a study of the subject in the laboratory, based upon the suggestion that long exposures of the arc spectrum might bring out many faint lines which are not given in published tables of wave-lengths. Such metals as titanium, vanadium and manganese, which are represented by many strong lines in the spectra of Sun-spots, were found to give numerous faint lines if the exposures were sufficiently prolonged. A large number of these lines have been identified with spot lines, precautions being taken to avoid mere chance coincidences. The investigation is being continued, and the spectra of all of the metals that are prominently represented in spot spectra will be studied in this way.

By the aid of photographic plates sensitized with pinachrome it has been found possible to obtain good photographs of the widened lines in the less refrangible region of spot spectra. The portion of the spectrum thus included in our regular work now extends from the red as far toward the violet as the widened lines are found.

GEORGE E. HALE.

ORGANIZATION OF THE COMPUTING DIVISION OF THE SOLAR OBSERVATORY.

The measurements of photographs taken on Mt. Wilson, and the necessary computations, will for the most part be made at the Solar Observatory Office in Pasadena. An addition to the building has recently been completed, with a number of offices for computers. The Computing Division will be in charge of Mr. W. S. ADAMS, who will hereafter spend much of his time in Pasadena, though he will continue to carry on special investigations at Mt. Wilson as opportunity permits. Miss LOUISE WARE, who was associated with Dr. SCHLESINGER in his investigation of stellar parallaxes at the Yerkes Observatory, under a grant from the Carnegie Institution, will join the Computing Division on July 1st. Other computers are being secured, and as several more will be needed in the near future, applications from persons desiring to take part in this work may be sent to Mr. ADAMS at the Solar Observatory Office, Pasadena. A new globe measuring machine for heliographic positions is just being completed, and measuring machines for spectra have been obtained from TOEPFER of Potsdam and GAERTNER of Chicago. Calculating machines have also been provided, and it is hoped that the Computing Division will be in full operation within a short time.

GEORGE E. HALE.